

II B.Tech I Semester Supplementary Examinations, November 2006
ANATOMY AND PHYSIOLOGY
(Bio-Medical Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Describe the main structural and functional characteristics of muscle tissue? Write about Process? [16]
2. What are the Endocrine glands? Explain in detail? [16]
3. Define Neuron? With a neat digram Explain about Neuron. [16]
4. Describe the eyeball by drawing the section of eyeball. Write the mechanism of sight? [16]
5. Write short notes on: [8+8=16]
 - (a) Pulse
 - (b) Blood Pressure.
6. Describe the development of respiratory system. [16]
7. How is bile secretion regulated? How is the bile juice collected and transported from the liver to the gall-bladder for storage? [16]
8. Discuss the process involved in glomerular filtration, tubular reabsorbtion and tubular secretion? [16]

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1. Explain the regions and bones of vertebral column? [16]
2. Describe the histology, location, hormones and functions of the pituitary gland? [16]
3. Write brief note on the following: [8+8=16]
 - (a) Cerebrospinal fluid
 - (b) Functions of hypothalamus.
4. What are the auditory ossicles? Explain the physiology of hearing? [16]
5. Describe the structure, functions, life cycle and production of red blood cells. [16]
6. Write short notes on the following: [8+8=16]
 - (a) Menstrual Cycle.
 - (b) Physiological changes in woman during pregnancy.
7. Describe the location of the stomach? Briefly explain the anatomical features of the stomach? [16]
8. With the help of a neat sketch explain the nephron? [16]

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1. Describe the axial skeletal system? Describe about Foramen? [16]
2. Explain in detail about the bone and muscle physiology? What is myasthenia gravis? [16]
3. Write brief note on the following: [8+8=16]
 - (a) Cerebrospinal fluid
 - (b) Functions of hypothalamus.
4. Explain the anatomy and physiology of ear? [16]
5. Write a short note on: [8+8=16]
 - (a) Structure of ear
 - (b) Conducting system of the heart.
6. Describe the development of reproductive systems. [16]
7. Describe the structure of stomach? Explain the digestion process in the stomach? [16]
8. Write about the evaluation of kidney function? Discuss about ureters? [16]

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1. What are the different bones of the lower limb? Describe the femur and the tibia? [16]
2. Explain the functional concept of the Human body in detail? [16]
3. Describe the basic functions of nervous system that are necessary to maintain homeostasis? [16]
4. Describe the retinal processing of visual input to the brain. [16]
5. (a) Discuss the coronary circulation? Explain semilunar valves? [8]
(b) What are the autorhythmic fibres? Discuss about the conduction system of heart with a neat sketch. [8]
6. Define reproduction and classify the organs of reproduction. [16]
7. Describe the location of the stomach? Briefly explain the anatomical features of the stomach? [16]
8. Write a short notes on: [8+8=16]
 - (a) Renal failure
 - (b) Nephron.
